

Amendments to the Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): A process for producing 2,2,3,3-tetrafluorooxethane, which comprises allowing tetrafluoroethylene to react with a formaldehyde generating compound of formaldehyde generation source in anhydrous hydrogen fluoride, characterized in that the said reaction being is carried out in the presence of polyfluoroalkylic acid or polyfluoroalkyl ester thereof, represented by the following general formula:



(wherein Rf is a polyfluoroalkyl group having 1-5 carbon atoms, and Rf' is a hydrogen atom or a polyfluoroalkyl group having 1-5 carbon atoms).

Claim 2 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, wherein the carboxylic acid, represented by the general formula RfCOORf', is CF₃COOH.

Claim 3 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula RfCOORf', is CF₃COOCH₂CF₂CF₃.

Claim 4 (Original): A process for producing 2,2,3,3-tetrafluorooxethane according to Claim 1, where the carboxylic acid ester, represented by the general formula $RfCOORf$, is $CF_3COOCH_2CF_3$.